

Course plan

Year: 2026-2027	Semester: ☒ First ☐ Second	Number of students: 20
Major: MD, MBBS	☒ Basic sciences ☐ Physiopathology	Department: Physiology
Course Title: Physiology of GI	☒ Theoretical ☐ Practical	Credit: 0.6
Prerequisite: none	Day & Time: Tuesday, 10-12 A.M.	Place: Tadbir
Instructor: Dr. Ghasemi	Office address: School of Medicine, Department of physiology	Tel: 031-3792 9014
Email: ghasemi.m.ph@gmail.com	Response Hours and Days: 13-15 p. m Tuesday	Student representative name and mobile number:

Main objective: Understanding the main function of gastrointestinal system

Specific objects:

1-Principles of Digestive System Movements and Control

Exploring the principles governing the movements of different parts of the digestive system and their control within the knowledge domain.

2-Blood Circulation System in the Digestive System

Understanding the blood circulation system within the digestive system within the knowledge domain.

3- Principles of Secretion in Digestive Tract

Familiarity with the general principles of secretion in different parts of the digestive tract and their control within the knowledge domain.

4- Digestion and Absorption Principles

Learning the basic principles of digestion and absorption in the digestive system within the knowledge domain.

5- Digestive Activity of the Liver

Exploring the digestive activity of the liver within the knowledge domain.

6- Metabolism of Vitamins and Minerals

Understanding the metabolism of vitamins and minerals within the knowledge domain.

References (Text books):

1- [Guyton and Hall Textbook of Medical Physiology, \(The latest version of the book\)](#)

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learnings outcomes)

ASSESSMENT TOOLS	From
Class activities and quiz	2
Final Exam (Written and Multiple-choice questions)	18
TOTAL MARKS	20

Students' responsibilities:

- 1- Study the topics before and after the class
- 2- Observe the class order and rules
- 3- Attend all classes

Discipline and educational rules:

- 1- For each unplanned absence, 0.5 points will be deducted from 20, and in case of absence exceeding the permissible limit, the score will be zero.
- 2- The maximum permission time to participate in the class is 5 min after the start.
- 3- Mobile phone use is prohibited during class.

Other important notes for students:

- 1- Studying the rules and rights of the professor and the student

Mid exam date: In accordance with the schedule**Final exam date:** In accordance with the schedule

Row	date	Presentation	Topic	Professor	Theoretical or practical	References	Chapter	Pages
1	Sep. 22	In person	General Principles of Digestive Movements, Nervous Control of Digestive Function, Types of Movements in the Digestive Tract, Blood Flow in the Digestive Tract, Transport and Mixing in the Digestive Tract, Chewing and Swallowing Processes	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	63, 64	771-790
2	Sep. 29	In person	Stomach Movements, Small Intestine Movements, Colon Movements, Autonomic Reflexes Impacting Intestinal Activity	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	64	781-790
3	Oct. 6	In person	General Principles of Digestive Tract Secretion, Saliva Secretion, Esophagus, Stomach, and Pancreas Secretions, Liver's Bile Secretion, Small and Large Intestine Secretions	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and Hall) and Principles of Hofbrand Hematology	65	791-807
4	Oct. 13	In person	Basic Principles of Food Digestion and Absorption, Small Intestine Absorption, Large	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and	66	808-817

			Intestine Absorption, Stool Formation			Hall)		
5	Oct. 20	Uploaded a PowerPoint presentation on NAVID	Understanding the Liver and Its Digestive Functions, Regulation of Food Intake, Exploring Obesity and Thinness, Metabolism of Vitamins and Minerals	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	71, 72	859-992
6	Oct. 27	In person	Queiz	Dr. Ghasemi	Theoretical	Textbook of Medical Physiology (Guyton and Hall) and Principles of Hofbrand Hematology		